SERVICE BULLETIN

Health Imaging Products

Eastman Kodak Company, Health Imaging, Rochester, NY 14650

SERVICE BULLETIN NO. 311 **MARCH 2004**

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3752 *Kodak Min-R* MAMMOGRAPHY PROCESSOR

3041 *Kodak* M35 *X-Omat* PROCESSOR

3047 *Kodak* M35A *X-Omat* PROCESSOR

3554 *Kodak X-Omat* 2000 PROCESSOR

3555 *Kodak X-Omat* 2000A PROCESSOR

3425 *Kodak X-Omat* 5000 RA PROCESSOR

3228 *Kodak X-Omat* 480 RA PROCESSOR

3056 *Kodak X-Omat* 460 RA PROCESSOR

3040 *Kodak* RP *X-Omat* PROCESSOR, MODEL M6B

3485 *Kodak X-Omat* 1000/1000J PROCESSOR

3482 *Kodak X-Omat* 1000A PROCESSOR

3112 *Kodak* AUTOMIXER II

3439 *Kodak* AUTOMIXER II Plus

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1. Version 2.3 SOFTWARE, New Plumbing Configuration, and Updated MANUALS for *Kodak X-Omat* 1000, 1000A, and 1000J PROCESSORS

Version 2.3 SOFTWARE is now in use in the *X-Omat* 1000, 1000A, and 1000J PROCESSORS. New features/changes include:

- If the TOP COVER is not in place, the ALARM will alternate 50 seconds on and 50 seconds off. When the COVER is placed correctly, a quick beep is sounded. The alarm can be cancelled by pressing a BUTTON on the CONTROL PANEL.
- The time allowed for the DEVELOPER SOLUTION to reach proper temperature was extended to 120 minutes, from 60 minutes to accommodate unusually cold darkrooms and wash water temperatures.
- If the developer temperature CIRCUIT is not operating properly, the "Service" INDICATOR illuminates continuously.
- If the dryer temperature CIRCUIT is not operating properly, the "Service" INDICATOR flashes on and off.
- The water is turned off during standby, to conserve water.

Part Number	Description	SOFTWARE Included	Comments
1E2526	CIRCUIT BOARD, IO	V 1.0	
1E2600	V 2.3 ROM	V2.3	Install in units: Model 1000 - S/N 483 and above ONLY Model 1000A – S/N 1243 and above ONLY
1E2533	V 1.0 ROM	V1.0	Can be used in all units

CAUTION: This version of SOFTWARE can only be used with the new WASH TANK and PLUMBING configuration, which was implemented into production with serial number:

Model	Serial Number	New Plumbing Configuration
1000	483	New plumbing configuration consists of: • STANDPIPES for draining TANKS • New location of DRAIN OUTLETS
1000A	1243	

The MANUALS have been updated to reflect the plumbing changes and new DRYER BRACKET KIT (see Article #2 below):

MANUAL	Publication Part Number	Date
OPERATORS MANUAL	9B8942	10 SEP 02
SITE SPECIFICATIONS	7c7880	10 SEP 02
INSTALLATION INSTRUCTIONS	9B8948	10 SEP 02
SERVICE MANUAL	9B8949	10 SEP 02

2. DRYER BRACKET KIT for the *Kodak X-Omat* 1000, 1000A and 1000J PROCESSORS

A DRYER BRACKET KIT , P/N 1E2462 is available from Service Parts Management for the *Kodak X-Omat* 1000, 1000A and 1000J PROCESSORS.

When installed, the KIT keeps the DRYER RACK seated properly into the RACK SUPPORT BAR, so that the INTERLOCK SWITCH is properly made.

Units beginning with the serial numbers listed below, will include the DRYER BRACKET KIT.

Model	Serial Number
1000	2288
1000A	1223
1000J	1300

3. SMOOTH GUIDE SHOE Configuration in the Fixer and Wash RACK Turnarounds of the *Kodak Min-R* MAMMOGRAPHY PROCESSOR

The TURNAROUND in the Fix and Wash racks used in the *Kodak Min-R* MAMMOGRAPHY PROCESSOR contain the following new SMOOTH GUIDE SHOES, to reduce incidence of lead-edge and trail-edge "tick mark" artifacts caused by the fix and wash racks.

Original P/N	New P/N	Description	Qty. Per Rack
287006	1F1934	SHOE, GUIDE-Smooth	2
1C7635	7C7860	SHOE, GUIDE-Smooth	1

Original Packed Rack P/N	New Packed Rack P/N	Description
748164	1F1934	*Min-R* FIX & WASH TURNAROUND AY, Pkd. (with smooth shoes)
748165	1F1933	*Min-R* FIX RACK, Pkd. (with smooth shoes)
261277	1F1931	Min-R WASH RACK, Pkd. (with smooth shoes)

The new parts are available from Service Parts Management.
These changes were implemented into production units starting with Serial Number 232,489.

4. New ROLLER Configuration in the Enhanced Mammography DEVELOPER RACK for the *Kodak* M35 *X-Omat* PROCESSOR

Because it is recommended that *Min-R* MAMMOGRAPHY film be processed emulsion down in the *Kodak X-Omat* M35 PROCESSORS, the following EXIT ROLLERS are now being used in the Enhanced Mammography DEVELOPER RACK, P/N 1C7315:

Position	Old ROLLER Part Number	New ROLLER Part Number
Upper EXIT ROLLER	1C7636	287028
Lower EXIT ROLLER	1C7633	287030

5. Improved Snap-in STUD for RECEIVING BIN of the *Kodak X-Omat* 2000, 2000A, and *Min-R* MAMMOGRAPHY PROCESSORS

The snap in STUDS which hold the RECEIVING BIN onto the PROCESSOR have been lengthened to improve holding ability. The new part number 1F6916,
is being used on production units and is also available to order from Service Parts Management.

6. FILM FEED BUZZER KIT for the *Kodak X-Omat* 2000/ 2000A PROCESSORS, *Kodak Min-R* MAMMOGRAPHY PROCESSOR, *Kodak* M35, M35A, M35-M, and M35A-M *X-Omat* PROCESSORS

If you are unable to clearly hear the film feed signal on these PROCESSORS, you can order and install the FILM FEED BUZZER KIT, P/N 1F8927 from Service Parts Management. This KIT is installed in addition to the existing BUZZER, to make the film feed signal louder.

7. Alternate SQUEEGEE Assembly for the *Kodak* RP *X-Omat* PROCESSOR, MODEL M6B, *Kodak X-Omat* 5000 RA PROCESSOR, *Kodak X-Omat* 480 RA PROCESSOR, and *Kodak X-Omat* 460 RA PROCESSOR

If you experience GUIDESHOE scratches resulting from the SQUEEGEE ASSEMBLY, you will need to order the following parts:

Part Numbers Required	Description	Qty.	Comments
1F8758	SIDEPLATES-SPECIAL	1 set	Includes: (1) 1F8759, INSTRUCTIONS (1) 1F8744, SIDEPLATE, SQUEEGEE- Non-drive side (1) 1F8444, SIDEPLATE, SQUEEGEE- Drive side
458949	ROLLER	1	
1C4981	SPACER	1	
852682	SCREW	4	

These parts are available from Service Parts Management.

8. SMOOTH GUIDE SHOE KIT for the *Kodak* RP *X-Omat* PROCESSOR, MODEL M6B, *Kodak X-Omat* 5000 RA PROCESSOR, *Kodak X-Omat* 480 RA PROCESSOR, and the *Kodak X-Omat* 460 RA PROCESSOR

To reduce incidence of lead-edge and trail-edge "tick mark" artifacts caused by the DEVELOPER or FIX RACKS, SMOOTH GUIDE SHOE (9B8293) and 1/8" (3.18 mm) ribbed GUIDE SHOE (5B6409) will be made available as a kit (1F5709) to replace the 1" (25.4 mm) ribbed GUIDESHOES (458228 & 562765) in the TURNAROUND of the DEV and FIX RACKS.

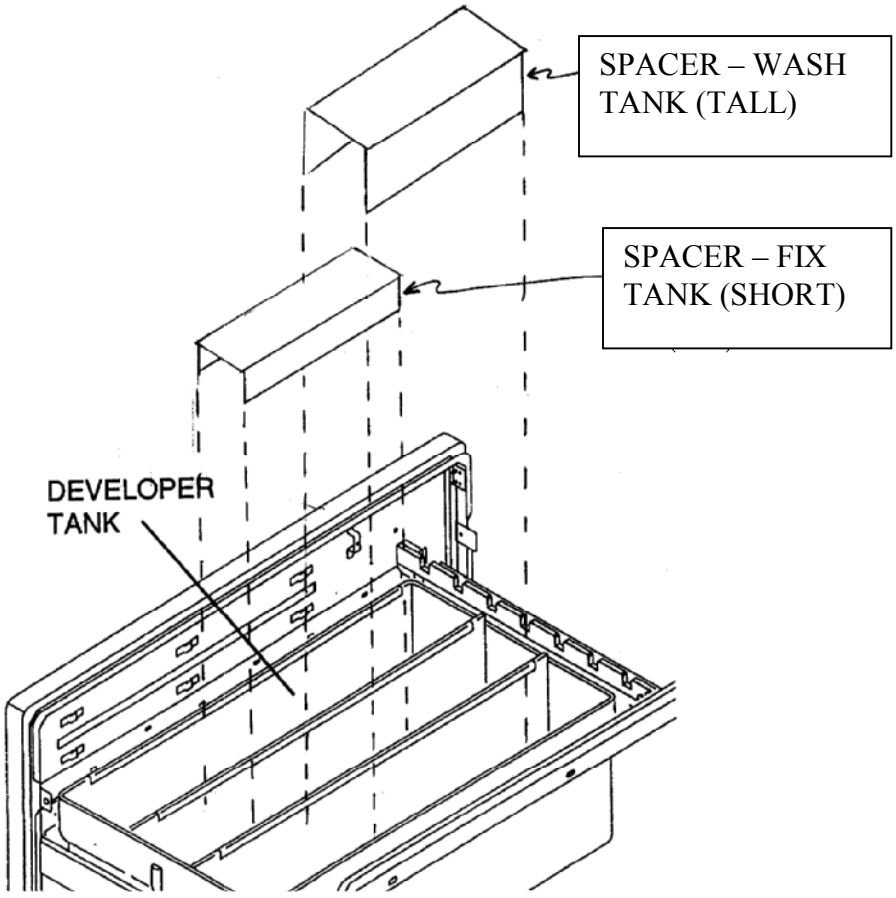
KIT P/N	Components	Qty	Description
1F5709, M6/480 SMOOTH GUIDE SHOE KIT	9B8293	2	GUIDE SHOE, Smooth
	5B6409	1	SHOE AY-Turnaround
	1F5710	1	INSTRUCTIONS

9. TANK STIFFENERS Available for the *Kodak* RP *X-Omat* PROCESSOR, MODEL M6B, *Kodak X-Omat* 5000 RA PROCESSOR, *Kodak X-Omat* 480 RA PROCESSOR, *Kodak X-Omat* 460 RA PROCESSOR

If TANK warping is experienced in the FIX OR WASH TANKS of the M6B, 5000RA, 480RA, or 460RA PROCESSORS, the following parts can be ordered and installed into the FIX AND WASH TANK, underneath the RACK:

Part Number	Description	Install In
1F5095	SPACER-FIX TANK	FIX TANK
1F5094	SPACER-WASH TANK	WASH TANK
1F6829	SHIM	WASH TANK

The parts consist of metal U-CHANNELS that are placed into the FIX AND WASH TANKS to brace the WALL. The CHANNELS sit between the bottom of the RACKS and the TANK FLOOR.



The 10 x 10 cm SHIM is installed between the WASH TANK SPACER and the TANK WALL, centered along the length. Make sure that it does not go into the large side openings (on the CHANNEL) as you install it.

10. PIERCER Improvement for the *Kodak* AUTOMIXER II and AUTOMIXER II PLUS

If CHEMISTRY drains slowly from the BOTTLES, because the PIERCER in the *Kodak* AUTOMIXER II or AUTOMIXER II PLUS does not pierce the SEAL completely, you can order and install the following parts:

Model of AUTOMIXER	**PIERCER Part Numbers**	**PIERCERS needed for each AUTOMIXER**
AUTOMIXER II	9171279	2 (1 for each PIERCER for BOTTLE "A")
AUTOMIXER II PLUS	9270531	2 (1 for each PIERCER for BOTTLE "A")
Installation Instructions	6F6595	

These parts are available at Service Parts Management.

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For more information please contact:

Eastman *Kodak* Company
Health Imaging
1-800-328-2910 (U. S. Only)
651-393-1728 (Outside the U.S.A.)

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